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Approved For Release 2004/04/13 : CIA-RDP79B01709A002800040001-8

T-O-P S-E-C-R-E-T

CWG-D-11
31 January 1964

MEMORANDUM FOR: COMOR Photo Working Group
SUBJECT: Vulnerability Program for KH-4

1. The attached document, received from the NRO OPCEN, reports on the results of a survey to determine which inclination angles (in the present stable) would produce coverage of the greatest number of Highest Priority and Priority COMOR Targets. (Ref. CWG-M-30, paras. 5 and 6).

2. This item will be added to the Working Group Agenda for 4 February 1964.

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Chairman
COMOR Photo Working Group

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NRO review(s) completed.

Copy 20

Group 1
Excluded from automatic down-
grading and declassification.

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Attachment to CWG-D-11

28 January 1964

MEMORANDUM FOR THE CHAIRMAN, COMOR PHOTO WORKING GROUP

SUBJECT: Vulnerability Program

NRO OPCEN has conducted a survey of one day orbits to determine which inclination angle would produce coverage of the greatest number of priority one and lesser targets.

Target overlay used was the basic COMOR CORONA target overly utilizing the highest priority target list as contained in D-2/3.

Following figures are the results of the survey:

| | 65° | | 70° | | 75° | | 81.75° | |
|----------|---------|--------|---------|--------|---------|--------|---------|--------|
| Rev | Prity 1 | Lesser |
| 1 | 0 | 0 | 1 | 5 | 0 | 2 | 0 | 0 |
| 2 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 5 |
| 3 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 0 |
| 4 | 3 | 2 | 2 | 5 | 2 | 4 | 0 | 1 |
| 5 | 1 | 3 | 4 | 4 | 4 | 5 | 0 | 4 |
| 6 | 2 | 7 | 6 | 8 | 3 | 9 | 1 | 12 |
| 7 | 2 | 2 | 5 | 9 | 8 | 10 | 5 | 4 |
| 8 | 2 | 25 | 6 | 9 | 7 | 12 | 3 | 4 |
| 9 | 0 | 11 | 1 | 6 | 3 | 32 | 2 | 40 |
| Total:11 | | 50 | 26 | 47 | 28 | 78 | 13 | 70 |

No priority targets covered on first day after rev 9 descending.

Total of 61 priority targets listed at present time in USSR and CRC.

The above figures represent descending coverage only. All but six of the priority one targets located below 60 degrees north latitude, could be covered at any time of the year.

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In addition to descending coverage, the following targets could be covered on ascending passes. Illumination is based on best day, 21 June. All targets are located above 40 degrees north latitude.

| | <u>65°</u> | | <u>70°</u> | | <u>75°</u> | | <u>81.75°</u> | |
|--------|------------|--------|------------|--------|------------|--------|---------------|--------|
| Rev | Prity 1 | Lesser | Prity 1 | Lesser | Prity 1 | Lesser | Prity 1 | Lesser |
| 1A | 0 | 0 | 3 | 0 | 2 | 5 | 2 | 3 |
| 2A | 2 | 2 | 2 | 6 | 4 | 8 | 5 | 18 |
| 3A | 6 | 6 | 4 | 15 | 3 | 14 | 0 | 6 |
| 4A | 2 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13A | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 |
| 14A | 1 | 0 | 0 | 0 | 4 | 7 | 1 | 4 |
| 15A | 1 | 6 | 0 | 6 | 0 | 0 | 1 | 5 |
| 16A | 2 | 1 | 0 | 5 | 0 | 0 | 0 | 6 |
| 17A | 1 | 3 | 0 | 2 | 0 | 0 | 1 | 0 |
| Total: | 15 | 37 | 9 | 34 | 15 | 37 | 10 | 42 |

Grand totals of ascending and descending passes are:

| | <u>65°</u> | | <u>70°</u> | | <u>75°</u> | | <u>81.75°</u> | |
|--------|------------|--------|------------|--------|------------|--------|---------------|--------|
| Rev | Prity 1 | Lesser | Prity 1 | Lesser | Prity 1 | Lesser | Prity 1 | Lesser |
| 1 | 0 | 0 | 4 | 5 | 2 | 7 | 2 | 3 |
| 2 | 3 | 2 | 2 | 6 | 4 | 10 | 6 | 23 |
| 3 | 6 | 6 | 5 | 16 | 4 | 16 | 1 | 6 |
| 4 | 5 | 21 | 2 | 5 | 2 | 4 | 0 | 1 |
| 5 | 1 | 3 | 4 | 4 | 4 | 5 | 0 | 4 |
| 6 | 2 | 7 | 6 | 8 | 3 | 9 | 1 | 12 |
| 7 | 2 | 2 | 5 | 9 | 8 | 10 | 5 | 4 |
| 8 | 2 | 25 | 6 | 9 | 7 | 12 | 3 | 4 |
| 9 | 0 | 11 | 1 | 6 | 3 | 32 | 2 | 40 |
| 13 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 |
| 14 | 1 | 0 | 0 | 0 | 4 | 7 | 1 | 4 |
| 15 | 1 | 6 | 0 | 6 | 0 | 0 | 1 | 5 |
| 16 | 2 | 1 | 0 | 5 | 0 | 0 | 0 | 6 |
| 17 | 1 | 3 | 0 | 2 | 0 | 0 | 1 | 0 |
| Total: | 26 | 87 | 35 | 81 | 43 | 115 | 23 | 112 |

(signed)

Deputy for Operations
NRO Staff

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